(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 15 July 2004 (15.07.2004)

(10) International Publication Number WO 2004/058161 A2

(51) International Patent Classification7:

A61K

(74) Agents: SHEEHAN, John, M. et al.; FMC Corporation,

(21) International Application Number:

PCT/US2003/040545

(22) International Filing Date:

19 December 2003 (19.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/435,012

20 December 2002 (20.12.2002)

(71) Applicant (for all designated States except US): FMC CORPORATION [US/US]; 1735 Market Street, Philadephia, PA 19103 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WU, Shilan [CN/US]; 2901 Stonehedge Road, Edison, NJ 08820 (US). ALLENZA, Paul [US/US]; 16 Pleasant View Way, Flemington, NJ 08822 (US). HALLING, Blaik, P. [US/US]; 384 Chase Road, Newtown, PA 18940 (US).

1735 Market Street, Philadelphia, PA 19103 (US). (81) Designated States (national): AE, AG, AL, AM, AT, AU,

AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HEMIPTERAN POLO-LIKE KINASES

(57) Abstract: Novel nucleic acid sequences encoding Hemipteran polo-like kinases, and recombinant expressions and host cells comprising the same are disclosed. Isolated Hemipteran polo-like kinases, host cells expressing Hemipteran polo-like kinases, methods of producing the Hemipteran polo-like kinases and antibodies specific for Hemipteran polo-like kinases are also disclosed. Methods of identifying modulators and/or inhibitors of Hemipteran polo-like kinases are disclosed